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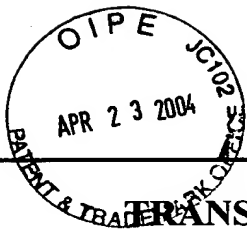
1639

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	09/963,920
		Filing Date	September 26, 2001
		First Named Inventor	Francis Barany
		Group Art Unit	1639
		Examiner Name	P. Ponnaluri
Total Number of Pages in This Submission	8 & cited references	Attorney Docket Number	19603/3356 (CRF D-1595F)

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> A copy of the Notice to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Declaration and Power of Attorney <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Application Data Sheet <input type="checkbox"/> Request for Corrected Filing Receipt with Enclosures <input checked="" type="checkbox"/> A self-addressed, prepaid postcard for acknowledging receipt <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): PTO-1449 (4 pages) (in duplicate) 5 cited references
Remarks	<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 14-1138 for the above identified docket number.	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Noreen L. Connolly, Esq. Nixon Peabody LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603-1051 Telephone: (585) 263-1597 Fax: (585) 263-1600
Signature	<i>Noreen L. Connolly</i> Registration No. 48,987
Date	<i>April 20, 2004</i>

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<i>April 20, 2004</i> Date	<i>Jo Ann Whalen</i> Signature Jo Ann Whalen Typed or printed name



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FEE TRANSMITTAL FOR FY 2004

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$180)

Complete if Known

Application Number 09/963,920
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First Named Inventor Francis Barany
Examiner Name P. Ponnaluri
Art Unit 1639
Attorney Docket No. 19603/3356 (CRF D-1595F)

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number 14-1138

Deposit Account Name Nixon Peabody LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s)

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FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$0)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
20**	X		0
Independent Claims	-3**	X	0
Multiple Dependent	X		0

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$0)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

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1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action
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1252	420	2252	210	Extension for reply within second month
1253	950	2253	475	Extension for reply within third month
1254	1,480	2254	740	Extension for reply within fourth month
1255	2,010	2255	1,005	Extension for reply within fifth month
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1402	330	2402	165	Filing a brief in support of an appeal
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1806	180	1806	180	Submission of Information Disclosure Stmt
8021	40	8021	40	Recording each patent assignment per property (times number of properties)
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Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$180)

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SUBMITTED BY

Name (Print/Type) Noreen L. Connolly

Registration No. 48,987
(Attorney/Agent)

Complete (if applicable)

Telephone (585) 263-1597

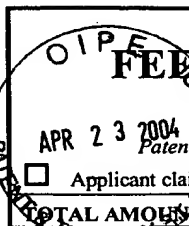
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Alexandria, VA 22313-1450

 <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">FOR FY 2004</h3> <p style="font-size: small; margin: 0;">Patent fees are subject to annual revision.</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>		<p style="font-size: small; margin: 0;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>09/963,920</td> </tr> <tr> <td>Filing Date</td> <td>September 26, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Francis Barany</td> </tr> <tr> <td>Examiner Name</td> <td>P. Ponnaluri</td> </tr> <tr> <td>Art Unit</td> <td>1639</td> </tr> <tr> <td>Attorney Docket No.</td> <td>19603/3356 (CRF D-1595F)</td> </tr> </table>		Application Number	09/963,920	Filing Date	September 26, 2001	First Named Inventor	Francis Barany	Examiner Name	P. Ponnaluri	Art Unit	1639	Attorney Docket No.	19603/3356 (CRF D-1595F)
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TOTAL AMOUNT OF PAYMENT		(\$ 180)													

<h4 style="text-align: center; margin: 0;">METHOD OF PAYMENT (check all that apply)</h4> <p> <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None </p> <p> <input type="checkbox"/> Deposit Account: Deposit Account Number: 14-1138 Deposit Account Name: Nixon Peabody LLP </p> <p> The Commissioner is authorized to: (check all that apply) <input type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. </p> <h4 style="text-align: center; margin: 0;">FEE CALCULATION</h4> <div style="border: 1px solid black; padding: 5px;"> <h5>1. 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1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																																																																																												
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1401	330	2401	165	Notice of Appeal																																																																																																																																																																																																																																												
1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																																																																																																												
1403	290	2403	145	Request for oral hearing																																																																																																																																																																																																																																												
1451	1,510	1451	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																												
1452	110	2452	55	Petition to revive - unavoidable																																																																																																																																																																																																																																												
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1802	900	1802	900	Request for expedited examination of a design application																																																																																																																																																																																																																																												

<h4 style="margin: 0;">SUBMITTED BY</h4>		<p style="font-size: small; margin: 0;">Complete (if applicable)</p>	
Name (Print/Type)	Noreen L. Connolly	Registration No.	48,987
Signature	<i>Noreen L. Connolly</i>	Telephone	(585) 263-1597
		Date	<i>April 20, 2004</i>

SEND TO: Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

PATENT

Docket No.: **19603/3356 (CRF D-1595F)**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Barany et al.

Serial No. : 09/963,920

Cnfrm. No. : 1149

Filed : September 26, 2001

For	:	DETECTION OF NUCLEIC ACID SEQUENCE)
		DIFFERENCES USING THE LIGASE)
		DETECTION REACTION WITH)
		ADDRESSABLE ARRAYS)

Examiner:
P. Ponnaluri

Art Unit:
1639

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98**

Mail Stop:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.98(d), the references 1-5 and 10-41 identified on the attached PTO-1449 form are not provided, because these references either were previously cited by or submitted to the PTO in the above referenced application or in the parent U.S. Patent Application Serial No. 08/794,851, filed February 4, 1997, of which this application claims priority under 35 U.S.C. § 120.

04/26/2004 MBERHE 00000104 09963920

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180.00 OP

Pursuant to 37 CFR § 1.17(p) and 37 CFR § 1.97(c), applicants hereby enclose a check in the amount of \$180.00. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 14-1138.

Respectfully submitted,

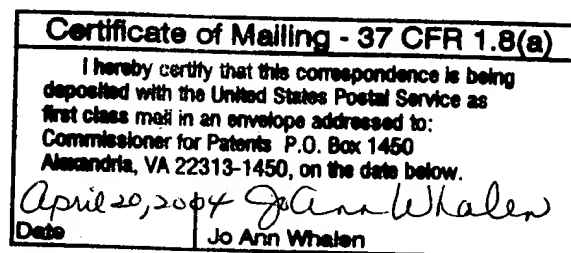
Date:

April 20, 2004

Noreen L. Connolly

Noreen L. Connolly
Registration No. 48,987

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Clinton Square, P.O. Box 31051
Rochester, New York 14603-1051
Telephone: (585) 263-1597
Facsimile: (585) 263-1600



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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> APR 23 2004 RECEIVED TRADEMARK OFFICE		Application Number	09/963,920
		Filing Date	September 26, 2001
		First Named Inventor	Barany et al.
		Art Unit	1639
		Examiner Name	P.Ponnaluri
Sheet 1 of 4	Attorney Docket Number	19603/3356 (CRF D-1595F)	

U.S. PATENT DOCUMENTS					
Examiner Initials ⁵	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	1	US-4,988,617	01/29/1991	Landegren et al.	
	2	US-5,516,635	02/16/1996	Ekins et al.	
	3	US-5,858,659	01/12/1999	Sapolsky et al.	
	4	US-6,143,495	11/07/2000	Lizardi et al.	
	5	US-6,506,594 B1	01/14/2003	Barany et al.	
	6	US-5,527,681	06/18/1996	Holmes	
	7	US-5,510,270	04/23/1996	Fodor et al.	
	8	US-5,594,121	01/14/1997	Froehler	
	9	US-5,723,320	03/03/1998	Dehlinger	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials ⁵	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	10	WO 92/10566	06/25/1992	WIPO		
	11	WO 98/03673 A	01/29/1998	WIPO		
	12	WO 00/56927 A3	09/28/2000	WIPO		

Examiner Signature	Date Considered
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

** cited and Received*

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) APR 23 2004 PATENT & TRADEMARK OFFICE		Application Number	09/963,920
		Filing Date	September 26, 2001
		First Named Inventor	Barany et al.
		Group Art Unit	1639
		Examiner Name	P.Ponnaluri
		Attorney Docket Number	19603/3356 (CRF D-1595F)
Sheet	2	of	4

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	13	Belgrader et al., "A Multiplex PCR-Ligase Detection Reaction Assay for Human Identity Testing," <u>Genome Science & Tech.</u> 1:77-87 (1996)	
	14	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," <u>Science</u> 274:610-614 (1996)	
	15	Day et al., "Identification of Non-Amplifying CYP21 Genes When Using PCR-Based Diagnosis of 21-Hydroxylase Deficiency in Congenital Adrenal Hyperplasia (CAH) Affected Pedigrees," <u>Hum. Mol. Genet.</u> 5(12):2039-2048 (1996)	
	16	Drobyshev et al., "Sequence Analysis by Hybridization with Oligonucleotide Microchip: Identification of β -Thalassemia Mutations," <u>Gene</u> 188:45-52 (1997)	
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	19	Hacia et al., "Detection of Heterozygous Mutations in <i>BRCA1</i> Using High Density Oligonucleotide Arrays and Two-Colour Fluorescence Analysis," <u>Nat. Genet.</u> 14:441-447 (1996)	
	20	Heller et al., "Discovery and Analysis of Inflammatory Disease-Related Genes Using cDNA Microarrays," <u>Proc. Nat'l. Acad. Sci. USA</u> 94:2150-2155 (1997)	
	21	Khanna et al., "Multiplex PCR/LDR for Detection of K-ras Mutations in Primary Colon Tumors," <u>Oncogene</u> 18:27-38 (1999)	
	22	Khrapko et al., "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix," <u>J. DNA Seq. Map.</u> 1:375-388 (1991)	
	23	Kozal et al., "Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene Using High-Density Oligonucleotide Arrays," <u>Nature Medicine</u> 2:753-759 (1996)	

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> APR 23 2004 PATENT & TRADEMARK OFFICE		Application Number	09/963,920
		Filing Date	September 26, 2001
		First Named Inventor	Barany et al.
		Group Art Unit	1639
		Examiner Name	P.Ponnaluri
		Attorney Docket Number	19603/3356 (CRF D-1595F)
Sheet	3	of	4

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	24	R.J. Lipshutz et al., "Using Oligonucleotide Probe Arrays To Assess Genetic Diversity," <u>Biotechniques</u> 19:442-447 (1995)	
	25	Lysov et al., "DNA Sequencing by Hybridization to Oligonucleotide Matrix. Calculation of Continuous Stacking Hybridization Efficiency," <u>Journal of Biomolecular Structure & Dynamics</u> 11(4):797-812 (1994)	
	26	Maskos et al., "A Study of Oligonucleotide Reassociation Using Large Arrays of Oligonucleotides Synthesised on a Glass Support," <u>Nucleic Acids Res.</u> 21:4663-4669 (1993)	
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	28	Nikiforov et al., "Genetic Bit Analysis: A Solid Phase Method for Typing Single Nucleotide Polymorphisms," <u>Nucleic Acids Res.</u> 22(20):4167-4175 (1994)	
	29	Nonradioactive <i>in situ</i> Hybridization Manual from Boehringer Mannheim Biochemicals, page 1, 1992	
	30	Nucleic Acid Hybridization, A Practical Approach, page 6, edited by Hames & Higgins, 1985, Published by IRL Press Limited, P.O. Box 1, Eynsham, Oxford OX 8 1JJ, England.	
	31	Parinov et al., "DNA Sequencing by Hybridization to Microchip Octa- and Decanucleotides Extended by Stacked Pentanucleotides," <u>Nucleic Acids Res.</u> 24:2998-3004 (1996)	
	32	Reed et al., "Chromosome-Specific Microsatellite Sets for Fluorescence-Based, Semi-Automated Genome Mapping," <u>Nature Genetics</u> 7:390-395 (1994)	
	33	Schena et al., "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," <u>Proc. Natl. Acad. Sci. USA</u> 93:10614-10619 (1996)	
	34	Shalon et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-Color Fluorescent Probe Hybridization," <u>Genome Res.</u> 6:639-645 (1996)	

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) APR 23 2004 PATENT & TRADEMARK OFFICE		Application Number	09/963,920
		Filing Date	September 26, 2001
		First Named Inventor	Barany et al.
		Group Art Unit	1639
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		Attorney Docket Number	19603/3356 (CRF D-1595F)
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	35	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation using Experimental Models," <u>Genomics</u> 13:1008-1017 (1992)	
	36	Timofeev et al., "Regioselective Immobilization of Short Oligonucleotides to Acrylic Copolymer Gels," <u>Nucleic Acids Res.</u> 24:3142-3148 (1996)	
	37	Tong et al., "Biochemical Properties of a High Fidelity DNA Ligase from <i>Thermus</i> species AK16D," <u>Nucleic Acids Research</u> 27(3):788-794 (1999)	
	38	Van Ness et al., "A Versatile Solid Support System for Oligodeoxynucleotide Probe-based Hybridization Assays," <u>Nucleic Acids Res.</u> 19:3345-3350 (1991)	
	39	Weber et al., "Abundant Class of Human DNA Polymorphisms Which Can Be Typed Using the Polymerase Chain Reaction,"	
	40	Yershov et al., "DNA Analysis and Diagnostics on Oligonucleotide Microchips," <u>Proc. Natl. Acad. Sci. USA</u> 93:4913-4918 (1996)	
	41	Zhang et al., "Single-base Mutational Analysis of Cancer and Genetic Diseases Using Membrane Bound Modified Oligonucleotides," <u>Nucleic Acids Res.</u> 19:3929-3933 (1991)	
	42	Janssen et al., "Evaluation of the DNA Fingerprinting Method AFLP as a New Tool in Bacterial Taxonomy," <u>Microbiology</u> 142:1881-1893 (1996)	

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